

Table 1.9 Net Generation of Electricity in the U.S. by Energy Source, 1960-2007

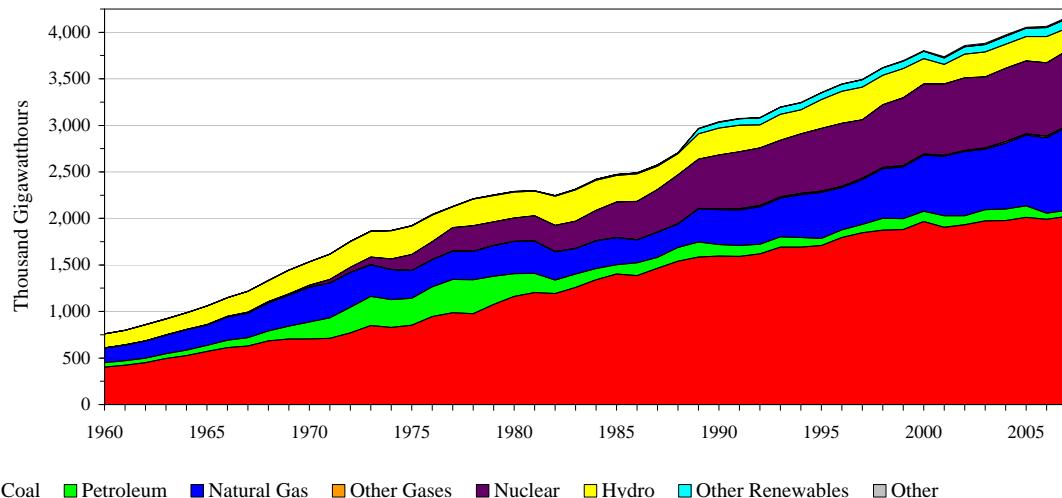
(Includes Electric Utilities; Independent Power Producers; and Combined Heat and Power for Commercial, Industrial and Electric Sectors)

Thousand Gigawatthours

| Year  | Coal    | Petro-leum | Natural Gas | Other Gases <sup>1</sup> | Nuclear-Electric Power | Hydro-electric Power <sup>2</sup> | Wood <sup>3</sup> | Waste <sup>4</sup> | Geo-thermal | Solar | Wind | Other <sup>5</sup> | Total Fossil Fuel | Total Renewable Energy | Total Renewable (excluding hydro.) | Total   | Percent Fossil Fuel | Percent Nuclear Power | Percent Renewable | Percent Renewable (excluding hydro.) |
|-------|---------|------------|-------------|--------------------------|------------------------|-----------------------------------|-------------------|--------------------|-------------|-------|------|--------------------|-------------------|------------------------|------------------------------------|---------|---------------------|-----------------------|-------------------|--------------------------------------|
| 1960  | 403.1   | 48.0       | 158.0       | na                       | 0.5                    | 149.4                             | 0.1               | na                 | 0.0         | na    | na   | na                 | 609.0             | 149.6                  | 0.2                                | 759.2   | 80.2%               | 0.1%                  | 19.7%             | 0.0%                                 |
| 1961  | 421.9   | 48.5       | 169.3       | na                       | 1.7                    | 155.5                             | 0.1               | na                 | 0.1         | na    | na   | na                 | 639.7             | 155.8                  | 0.2                                | 797.1   | 80.2%               | 0.2%                  | 19.5%             | 0.0%                                 |
| 1962  | 450.2   | 48.9       | 184.3       | na                       | 2.3                    | 172.0                             | 0.1               | na                 | 0.1         | na    | na   | na                 | 683.4             | 172.2                  | 0.2                                | 857.9   | 79.7%               | 0.3%                  | 20.1%             | 0.0%                                 |
| 1963  | 493.9   | 52.0       | 201.6       | na                       | 3.2                    | 169.0                             | 0.1               | na                 | 0.2         | na    | na   | na                 | 747.5             | 169.3                  | 0.3                                | 920.0   | 81.3%               | 0.3%                  | 18.4%             | 0.0%                                 |
| 1964  | 526.2   | 57.0       | 220.0       | na                       | 3.3                    | 180.3                             | 0.1               | na                 | 0.2         | na    | na   | na                 | 803.2             | 180.7                  | 0.4                                | 987.2   | 81.4%               | 0.3%                  | 18.3%             | 0.0%                                 |
| 1965  | 570.9   | 64.8       | 221.6       | na                       | 3.7                    | 197.0                             | 0.3               | na                 | 0.2         | na    | na   | na                 | 857.3             | 197.4                  | 0.5                                | 1,058.4 | 81.0%               | 0.3%                  | 18.7%             | 0.0%                                 |
| 1966  | 613.5   | 78.9       | 251.2       | na                       | 5.5                    | 197.9                             | 0.3               | na                 | 0.2         | na    | na   | na                 | 943.6             | 198.5                  | 0.5                                | 1,147.5 | 82.2%               | 0.5%                  | 17.3%             | 0.0%                                 |
| 1967  | 630.5   | 89.3       | 264.8       | na                       | 7.7                    | 224.9                             | 0.3               | na                 | 0.3         | na    | na   | na                 | 984.6             | 225.6                  | 0.6                                | 1,217.8 | 80.8%               | 0.6%                  | 18.5%             | 0.1%                                 |
| 1968  | 684.9   | 104.3      | 304.4       | na                       | 12.5                   | 225.9                             | 0.4               | na                 | 0.4         | na    | na   | na                 | 1,093.6           | 226.7                  | 0.8                                | 1,332.8 | 82.1%               | 0.9%                  | 17.0%             | 0.1%                                 |
| 1969  | 706.0   | 137.8      | 333.3       | na                       | 13.9                   | 253.5                             | 0.3               | na                 | 0.6         | na    | na   | na                 | 1,177.1           | 254.4                  | 0.9                                | 1,445.5 | 81.4%               | 1.0%                  | 17.6%             | 0.1%                                 |
| 1970  | 704.4   | 184.2      | 372.9       | na                       | 21.8                   | 251.0                             | 0.1               | 0.2                | 0.5         | na    | na   | na                 | 1,261.5           | 251.8                  | 0.9                                | 1,535.1 | 82.2%               | 1.4%                  | 16.4%             | 0.1%                                 |
| 1971  | 713.1   | 220.2      | 374.0       | na                       | 38.1                   | 269.5                             | 0.1               | 0.2                | 0.5         | na    | na   | na                 | 1,307.4           | 270.4                  | 0.9                                | 1,615.9 | 80.9%               | 2.4%                  | 16.7%             | 0.1%                                 |
| 1972  | 771.1   | 274.3      | 375.7       | na                       | 54.1                   | 275.9                             | 0.1               | 0.2                | 1.5         | na    | na   | na                 | 1,421.2           | 277.7                  | 1.8                                | 1,753.0 | 81.1%               | 3.1%                  | 15.8%             | 0.1%                                 |
| 1973  | 847.7   | 314.3      | 340.9       | na                       | 83.5                   | 275.4                             | 0.1               | 0.2                | 2.0         | na    | na   | na                 | 1,502.9           | 277.7                  | 2.3                                | 1,864.1 | 80.6%               | 4.5%                  | 14.9%             | 0.1%                                 |
| 1974  | 828.4   | 300.9      | 320.1       | na                       | 114.0                  | 304.2                             | 0.1               | 0.2                | 2.5         | na    | na   | na                 | 1,449.4           | 306.9                  | 2.7                                | 1,870.3 | 77.5%               | 6.1%                  | 16.4%             | 0.1%                                 |
| 1975  | 852.8   | 289.1      | 299.8       | na                       | 172.5                  | 303.2                             | 0.0               | 0.2                | 3.2         | na    | na   | na                 | 1,441.7           | 306.6                  | 3.4                                | 1,920.8 | 75.1%               | 9.0%                  | 16.0%             | 0.2%                                 |
| 1976  | 944.4   | 320.0      | 294.6       | na                       | 191.1                  | 286.9                             | 0.1               | 0.2                | 3.6         | na    | na   | na                 | 1,559.0           | 290.8                  | 3.9                                | 2,040.9 | 76.4%               | 9.4%                  | 14.2%             | 0.2%                                 |
| 1977  | 985.2   | 358.2      | 305.5       | na                       | 250.9                  | 223.6                             | 0.3               | 0.2                | 3.6         | na    | na   | na                 | 1,648.9           | 227.7                  | 4.1                                | 2,127.4 | 77.5%               | 11.8%                 | 10.7%             | 0.2%                                 |
| 1978  | 975.7   | 365.1      | 305.4       | na                       | 276.4                  | 283.5                             | 0.2               | 0.1                | 3.0         | na    | na   | na                 | 1,646.2           | 286.8                  | 3.3                                | 2,209.4 | 74.5%               | 12.5%                 | 13.0%             | 0.2%                                 |
| 1979  | 1,075.0 | 303.5      | 329.5       | na                       | 255.2                  | 283.1                             | 0.3               | 0.2                | 3.9         | na    | na   | na                 | 1,708.0           | 287.5                  | 4.4                                | 2,250.7 | 75.9%               | 11.3%                 | 12.8%             | 0.2%                                 |
| 1980  | 1,161.6 | 246.0      | 346.2       | na                       | 251.1                  | 279.2                             | 0.3               | 0.2                | 5.1         | na    | na   | na                 | 1,753.8           | 284.7                  | 5.5                                | 2,289.6 | 76.6%               | 11.0%                 | 12.4%             | 0.2%                                 |
| 1981  | 1,203.2 | 206.4      | 345.8       | na                       | 272.7                  | 263.8                             | 0.2               | 0.1                | 5.7         | na    | na   | na                 | 1,755.4           | 269.9                  | 6.1                                | 2,298.0 | 76.4%               | 11.9%                 | 11.7%             | 0.3%                                 |
| 1982  | 1,192.0 | 146.8      | 305.3       | na                       | 282.8                  | 312.4                             | 0.2               | 0.1                | 4.8         | na    | na   | na                 | 1,644.1           | 317.5                  | 5.2                                | 2,244.4 | 73.3%               | 12.6%                 | 14.1%             | 0.2%                                 |
| 1983  | 1,259.4 | 144.5      | 274.1       | na                       | 293.7                  | 335.3                             | 0.2               | 0.2                | 6.1         | na    | 0.0  | na                 | 1,678.0           | 341.7                  | 6.5                                | 2,313.4 | 72.5%               | 12.7%                 | 14.8%             | 0.3%                                 |
| 1984  | 1,341.7 | 119.8      | 297.4       | na                       | 327.6                  | 324.3                             | 0.5               | 0.4                | 7.7         | 0.0   | 0.0  | na                 | 1,758.9           | 332.9                  | 8.6                                | 2,419.5 | 72.7%               | 13.5%                 | 13.8%             | 0.4%                                 |
| 1985  | 1,402.1 | 100.2      | 291.9       | na                       | 383.7                  | 284.3                             | 0.7               | 0.6                | 9.3         | 0.0   | 0.0  | na                 | 1,794.3           | 295.0                  | 10.7                               | 2,473.0 | 72.6%               | 15.5%                 | 11.9%             | 0.4%                                 |
| 1986  | 1,385.8 | 136.6      | 248.5       | na                       | 414.0                  | 294.0                             | 0.5               | 0.7                | 10.3        | 0.0   | 0.0  | na                 | 1,770.9           | 305.5                  | 11.5                               | 2,490.5 | 71.1%               | 16.6%                 | 12.3%             | 0.5%                                 |
| 1987  | 1,463.8 | 118.5      | 272.6       | na                       | 455.3                  | 252.9                             | 0.8               | 0.7                | 10.8        | 0.0   | 0.0  | na                 | 1,854.9           | 265.1                  | 12.3                               | 2,575.3 | 72.0%               | 17.7%                 | 10.3%             | 0.5%                                 |
| 1988  | 1,540.7 | 148.9      | 252.8       | na                       | 527.0                  | 226.1                             | 0.9               | 0.7                | 10.3        | 0.0   | 0.0  | na                 | 1,942.4           | 238.1                  | 12.0                               | 2,707.4 | 71.7%               | 19.5%                 | 8.8%              | 0.4%                                 |
| 1989^ | 1,583.8 | 164.5      | 352.6       | 7.9                      | 529.4                  | 272.0                             | 27.2              | 9.2                | 14.6        | 0.3   | 2.1  | 3.8                | 2,108.8           | 325.3                  | 53.4                               | 2,967.3 | 71.1%               | 17.8%                 | 11.0%             | 1.8%                                 |
| 1990  | 1,594.0 | 126.6      | 372.8       | 10.4                     | 576.9                  | 289.4                             | 32.5              | 13.3               | 15.4        | 0.4   | 2.8  | 3.6                | 2,103.8           | 357.2                  | 64.4                               | 3,038.0 | 69.2%               | 19.0%                 | 11.8%             | 2.1%                                 |
| 1991  | 1,590.6 | 119.8      | 381.6       | 11.3                     | 612.6                  | 284.5                             | 33.7              | 15.7               | 16.0        | 0.5   | 3.0  | 4.7                | 2,103.3           | 357.8                  | 68.8                               | 3,073.8 | 68.4%               | 19.9%                 | 11.6%             | 2.2%                                 |
| 1992  | 1,621.2 | 100.2      | 404.1       | 13.3                     | 618.8                  | 248.9                             | 36.5              | 17.8               | 16.1        | 0.4   | 2.9  | 3.7                | 2,138.7           | 326.9                  | 73.8                               | 3,083.9 | 69.4%               | 20.1%                 | 10.6%             | 2.4%                                 |
| 1993  | 1,690.1 | 112.8      | 414.9       | 13.0                     | 610.3                  | 276.5                             | 37.6              | 18.3               | 16.8        | 0.5   | 3.0  | 3.5                | 2,230.7           | 356.7                  | 76.2                               | 3,197.2 | 69.8%               | 19.1%                 | 11.2%             | 2.4%                                 |
| 1994  | 1,690.7 | 105.9      | 460.2       | 13.3                     | 640.4                  | 256.7                             | 37.9              | 19.1               | 15.5        | 0.5   | 3.4  | 3.7                | 2,270.1           | 336.7                  | 76.5                               | 3,247.5 | 69.9%               | 19.7%                 | 10.4%             | 2.4%                                 |
| 1995  | 1,709.4 | 74.6       | 496.1       | 13.9                     | 673.4                  | 308.1                             | 36.5              | 20.4               | 13.4        | 0.5   | 3.2  | 4.1                | 2,293.9           | 384.8                  | 74.0                               | 3,353.5 | 68.4%               | 20.1%                 | 11.5%             | 2.2%                                 |
| 1996  | 1,795.2 | 81.4       | 455.1       | 14.4                     | 674.7                  | 344.1                             | 36.8              | 20.9               | 14.3        | 0.5   | 3.2  | 3.6                | 2,346.0           | 423.0                  | 75.8                               | 3,444.2 | 68.1%               | 19.6%                 | 12.3%             | 2.2%                                 |
| 1997  | 1,845.0 | 92.6       | 479.4       | 13.4                     | 628.6                  | 352.4                             | 36.9              | 21.7               | 14.7        | 0.5   | 3.3  | 3.6                | 2,430.3           | 433.6                  | 77.2                               | 3,492.2 | 69.6%               | 18.0%                 | 12.4%             | 2.2%                                 |
| 1998  | 1,873.5 | 128.8      | 531.3       | 13.5                     | 673.7                  | 318.9                             | 36.3              | 22.4               | 14.8        | 0.5   | 3.0  | 3.6                | 2,547.1           | 400.4                  | 77.1                               | 3,620.3 | 70.4%               | 18.6%                 | 11.1%             | 2.1%                                 |
| 1999  | 1,881.1 | 118.1      | 556.4       | 14.1                     | 728.3                  | 313.4                             | 37.0              | 22.6               | 14.8        | 0.5   | 4.5  | 4.0                | 2,569.7           | 399.0                  | 79.4                               | 3,694.8 | 69.5%               | 19.7%                 | 10.8%             | 2.1%                                 |
| 2000  | 1,966.3 | 111.2      | 601.0       | 14.0                     | 753.9                  | 270.0                             | 37.6              | 23.1               | 14.1        | 0.5   | 5.6  | 4.8                | 2,692.5           | 356.5                  | 80.9                               | 3,802.1 | 70.8%               | 19.8%                 | 9.4%              | 2.1%                                 |
| 2001  | 1,904.0 | 124.9      | 639.1       | 9.0                      | 768.8                  | 208.1                             | 35.2              | 14.5               | 13.7        | 0.5   | 6.7  | 11.9               | 2,677.0           | 287.7                  | 70.8                               | 3,736.6 | 71.6%               | 20.6%                 | 7.7%              | 1.9%                                 |
| 2002  | 1,933.1 | 94.6       | 691.0       | 11.5                     | 780.1                  | 255.6                             | 38.7              | 15.0               | 14.5        | 0.6   | 10.4 | 13.5               | 2,730.2           | 343.4                  | 79.1                               | 3,858.5 | 70.8%               | 20.2%                 | 8.9%              | 2.1%                                 |
| 2003  | 1,973.7 | 119.4      | 649.9       | 15.6                     | 763.7                  | 267.3                             | 37.5              | 15.8               | 14.4        | 0.5   | 11.2 | 14.0               | 2,758.6           | 355.3                  | 79.5                               | 3,883.2 | 71.0%               | 19.7%                 | 9.1%              | 2.0%                                 |
| 2004  | 1,978.6 | 120.8      | 708.9       | 16.8                     | 788.5                  | 259.9                             | 37.6              | 15.5               | 14.8        | 0.6   | 14.1 | 14.5               | 2,825.0           | 351.0                  | 82.6                               | 3,970.6 | 71.1%               | 19.9%                 | 8.8%              | 2.1%                                 |
| 2005  | 2,013.2 | 122.5      | 758.0       | 16.3                     | 782.0                  | 263.8                             | 38.7              | 15.5               | 14.7        | 0.6   | 17.8 | 12.5               | 2,910.0           | 357.5                  | 87.2                               | 4,055.4 | 71.8%               | 19.3%                 | 8.8%              | 2.2%                                 |
| 2006  | 1,990.9 | 64.4       | 813.0       | 16.1                     | 787.2                  | 282.7                             | 38.6              | 16.1               | 14.6        | 0.5   | 26.6 | 14.0               | 2,884.4           | 385.7                  | 96.4                               | 4,064.7 | 71.0%               | 19.4%                 | 9.5%              | 2.4%                                 |
| 2007  | 2,020.6 | 65.7       | 893.2       | 15.4                     | 806.5                  | 241.3                             | 38.5              | 16.9               | 14.8        | 0.6   | 32.1 | 13.8               | 2,994.9           | 351.3                  | 103.0                              | 4,159.5 | 72.0%               | 19.4%                 | 8.4%              | 2.5%                                 |

<sup>^</sup>Through 1988, data are for generation at electric utilities only. Beginning in 1989, data also include generation at independent power producers.<sup>1</sup>Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuel.<sup>2</sup>Conventional hydroelectric power and hydroelectric pumped storage facility production minus energy used for pumping.<sup>3</sup>Wood, black liquor, and other wood waste.<sup>4</sup>Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.<sup>5</sup>Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

**Figure 1.4a - Net Generation of Electricity in the U.S. by Energy Source, 1960-2007**



**Figure 1.4b - Net Generation of Electricity in the U.S. by Energy Source, 1960-2007**

